

## WHAT IS CLAIMED IS:

1. A data transmission system using at cellular phones, which provides a video data encoder that encodes inputted video data, an audio data encoder that encodes inputted audio data, video data storage that stores encoded video data outputted from said video data encoder,  
5 audio data storage that stores encoded audio data outputted from said audio data encoder, and a multiplexer that multiplexes smoothed video data outputted from said video data storage and smoothed audio data outputted from said audio data storage, and transmits multiplexed video and audio data, comprising:

10 an audio signal detector which audio signals of said inputted audio data and an audio input switch signal are inputted to; and

a multiplexing controller, wherein:

said audio signal detector measures audio levels of said inputted audio signals and generates a data write control signal for  
15 controlling said video data encoder and said audio data encoder and also generates an audio detected signal for controlling said multiplexing controller; and

said multiplexing controller generates a data read control signal for controlling said video data storage and said audio data storage,  
20 and also generates a data multiplexing control signal for controlling said multiplexer.

2. A data transmission system using at cellular phones in accordance with claim 1, wherein:

said audio signal detector measures changes of said audio levels of said inputted audio signals in the passage of time.

3. A data transmission system using at cellular phones in accordance with claim 2, wherein:

said audio signal detector judges whether said audio levels exceeded predetermined one or more levels or not.

4. A data transmission system using at cellular phones in accordance with claim 3, wherein:

said audio signal detector measures one or more periods that said audio levels exceeded said predetermined one or more levels.

5. A data transmission system using at cellular phones in accordance with claim 1, wherein:

said audio signal detector and said multiplexing controller work to transmit only said inputted video data regardless of said audio levels of said inputted audio signals, at the case that said audio input switch signal is OFF.

6. A data transmission system using at cellular phones in accordance with claim 1, wherein:

said audio signal detector and said multiplexing controller, at the case that said audio input switch signal is ON, work to control said encoded video data and a transmission bit rate of said encoded audio data in plural cases whether said audio levels of said inputted audio signals exceeded one or more predetermined levels and continued for one or more predetermined periods.